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## SECRET

-8 **-**

U.S. OFFICIALS GILLY

# MAP 2 -- THE BULGARIAN MILITIA GUARD OF THE FRONTIER COASTS ON THE BLACK SEA

Bela - Bela

Nesebar - Nesebur

Burgas - Burgas

Somopol - Somopol

Tsarevo - Michurin

Ahtopol - Akhtopol

Sv. Ivan - Sv. Ivan

Turquie - Turkey

Mer Noire - Black Sea

#### LEGENDE - LEGEND

Zone de Regiment - Regiment zone

Secteur du Bataillon - Battalion sector

Rayon de la Compagnie - Company radius acces

Postes - Posts

Echelle 1:500.000 - Scale 1 to 500,000

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STAHET

## MACTE IS THE ONE STREET

increasingly important, furninshing young nations with the eredentials with which they can struggle for a place emong the great powers, the presence of a robust economy [in a country] is an index of its capacity and merit, by means of which these netions obtain the respect and attention of the rest of the peoples in a conjugation of interests so strong that a place is opened where voices gain authority, thus making possible an influence on the destiny of humanity, for the conquest of a better world. It is, therefore, a live and partition economy, with or attive sharpy useful to the social community, which is based on the positive value of a people, and grants them not only the means to raise the level of collective culture and to fomest progress, but also to what its riones to undertakings of a high order, even in the domain of international society under the generous rule of the sternal limistical principles.

#### Irve Milling Process

It is never at of place to emphasize that in the retional exploration of the main in the retional exploration of the main in the main stays of the economic structure, to such a degree that it will typify a new cycle of work, expension, and enrichment, as definite and distinct a cycle as the one which marked the evolution of the country.

Perhaps none of the riches with which Brusil works and progresses may be compared to that of its potential mum capacity and in the active substance of its wealth in iron ore.

Actually, all its other economic activities are subject to the risks. if not, to the risk effects, of international competition, whether through natural production, or be recourse to synthetic substitutes, to the point that the exploration of our inemasstable iron beds finds a vast field for sure development, in a historical phase of the metallurgical industry, in which the reserves of iron abroad are diminishing more and more.

Consequently, the way is opened for Brazilian eco.s.y to institute a "cycle of iren" with all its young forces in a vigorous progressive movement, which will take place under the most heartening auspices of complete victory.

Because, today, more than ever, Brazil's iron represents an economic horison including not only a multiplicitt of furnaces in the country, for the melting of the precious and abundant ore, in all forms and types, and for a variety of purposes; not only the progress of the iron industry in heavy industry, of wrich the admirab e and triumphant undertaking at Volta Redond: is a prototype; butwalso the export of tron ore, for supplying factories abroad, and by way of each mige, the indispensable import of mineral fuel, coal and coke, a decisive element in the progress of the enterprises for industrial utilisation of the incomporable reserves of our iron nembers. And as a result of these factors, the flourishing of the national iron industry on economic bases, and if various other activities, whether injustries, agricultural, or commercial. leading to unsimited new possibilities of export of manifoldproducts and increase of the consumer capacity of the domestic market, to encourage the Meneral appropriatement of the nation and to strengthen the economic foundation width firmishes the resources of production, as a point of support for the powers of the smed forces, in war operations, an eventuality which no people, however idealistic or peaceful, can fail to consider, if it is to continue in time and space.

## Perce of Progress

One of the age to capeble of protecting this kind of catalyset in the economic order of the spuntry's ecoperating to hasten our progress, is the Companhie Vale do Rio Doce, tenacious and laborious in the realisation of its very constructive plans, in a fine patriotic effort for a greater Bresil, as wall be seen from the notes which we are setting forth below.

If it is not a universal hold, occurring also among other peoples, it is at least the nature of our people, to have the vice of not paying attention only when the giant appears, as an imposing surprise, in the revolution of unavoidable fact, just as the spring, which from a narrow trickle becomes a revine, and then a small river, and finally a river of powerful vaters, gainping name and place on maps.

The the Companies Vale do Rio Doce, whose progressive works we are spetlighting once again in this periodical to present a new aspect of its entirities, for the approxiation of the efforts already made and of the courses which they are steering.

If the rich province of Minas, for the exploration of the wealth of its beds of var one minerals, invites the Brazilians for extracting activities, the drive for gold which in former times impelled the expeditions in their rush for pemetration and dominion inland to scatter villages which became cities, has today been replaced by another form of exploring the earth, in search of tree-sure of another species, plentiful for mining activities, in the celebrated central "quadrilateral of Minas" to challenge organised and efficient work.

In the lands shown on the diagrem [p. 12 of original] the Companhia Minas Valle do Mio Doce placed its mag iffeent work cump, which was trunsformed into great industrial installations for the extraction of iron one by the most modern technical processes, on a scale without precedent. Its boldness speaks highly for the emergies of an uncommon organisation, since its economic activities extend across more than 600 kilometers along its railway, which is being modernized and perfected from the formidable bods of the Minas plateau to the sea, at Espirito Sante, in search of extlets for the Atlantic seaboard revises of the large examines.

The undertakings of this social organisation are of a pattern to merit a continuation of support by the high public authorities and also any others who might be able to lend it sincere and efficacious assistance in whatever form, since to support it is to stimulate it and to belp Brazil for the coning sq of better days.

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## Victo in Botrospect '

In regarding the bread ways in which the enterprises of the iron industry in Brazil are found today, one steps to consider what our forefathers assemplished.

Scarcely sincty years after the discovery of Brazil, the first farge for the asking of iron appeared in Brato Amiro, in the district of See Paulo. And in See Jose de Ipanese, in the same district, in 1818 the production of pig iron was tried in a planear attempt scarcely preceded by that which took place in Mano.

As a result, in 1815, the Chamber of Supply of Agular e Se, which in Europe specialised in information on mineralogy and the notallurgy of iron, installed in the present Morre do Pilar at 25 laguas [125 kilometers] from Tejuce, now called Diamentina, its blast furness for salting ore, having the distinction of being the first to succeed in manufacturing pig iron in Brazil. This enterprise, in spite of its notable achievements, did not endure later than 1930, when it stopped its activities.

A notable fact concerning the plan conscived by the Chamber of Supply was that it brought about the construction of reads which went from this Misse iron center through the Dio Doce valley and extended to the coast, so as to emable the maritims expertation of iron industry products to be carried out.

In the mining territory of the Ouro Prote a Manantina region, were the small factories of Mariana, Antonio Pereira, Inficience, Cocaia, Sta. Marbara, Itahira, Santana dee Perroe, Conceiene e Serro, which were equipped with Italian forges, furnaces, and motal melting pots, perfected by the German technicism and geologist Maron von Machunge, who equipped and kept up those factories. In 1675, the number of them amounted to about 80 with an average yearly production of 2 thomsand tons of iron.

The first successful undertaking to produce east-iron in Mines, was that of the Reperence plant, installed in 1888, near Italies, of which the blast furnesse were capable of producing 6 thousand tone of east iron per day.

## The Stockholm Congress

An important international event test place in 1910, which revealed to the world the importance of Brazilian are deposite; it was the International Geograps of Stockholm, whose main proposal consisted in balancing world iron are wealth.

In 1676 the Ours Freto Mining School was founded under the direction of the French mineralogist and geologist, the engineer Henri Gerceix.

Brazilian youth went to study in that establishment of specialized education which produced numerous technicians such as the engineer Gensage de Campos, who was charged by the government of Brazil with prospecting for and surveying the existing iron deposite and furnishing data to be presented at the 15th CONCRESS.

Through the work done by Gommage de Campos and presented to this Congress by Professor Ordillo Derby, Need of our Geographical Service, the interested nations learned that, in the central some of Minns, the potential iron reserves, on the ground level, with an average iron centent amounting to 50 to 60 percent iron, were estimated at 5,700,000,000 tons, which did not include underground reserves, which could only be determined by means of drillings and galleries.

At that time, foreign companies torand towards the acquisition of Brasil's richest deposits of iron, so such so that, during the petiod between 1910 and 1980, some mines were purchased directly from their Brasilian owners, at ridiculous prices, like these functs mines of Italian which today are a part of the property of the Valo de Rio Doce Company, which were acquired by Great Britain, at the ridiculous price of \$00,000 erusaires.

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Before earrying out such purchases, however, these interested went to the Directors of the Viteria to Mines Railroad and succeeded in obtaining the majority of the shares, by means of which they obtained control of this enterprise.

It was only afterwards that they obtained the Diamestian to Itabira Railroad and organised their enterprise, salied the Itabira Iron Ore Company (or the British Itabira Company in Oreat Britain) which was authorised to operate in 1911.

#### High Point in 1939

By the contract signed with the Government of Brazil on 29 May 1920, the Itabira Iron Ore Company, Limited, agreed to export iron on a large scale and to construct, at the same time, iron works capable of producing 150,000 tone of iron ani steel.

Due to an uproar on the part of the press ami Congress against this contract, and to the vigorous opposition by the Covernment of Minas to the sunopoly of railroad transport and exportation, it was not carried out, and in 1939, was declared nuil and void by decree number 1,507 of 11 August.

In 1939, financed with Brasilian, Belgian and Luxembourg capital, the Companhia Siderurgica Belgo Mineira was formed, capable of producing 150,000 tons of rolled steel, rails, rolled iron, barbed wire, and galvanised pipes.

In that year, the Mational Ironworks included 11 blast furnaces, with a total production of 100,000 tons of east iron and 60,000 of steel, ten of which are in Minae, located in Barmier, Reperance, Gorceix, Cate, Morro Grande, Sabara, Monlevade, Bio Acima, Belo Herisonte, and Gage, and one in the State of Rio, in Barra Mansa. All of these blast furnaces resulted from private initiative and capital.

Up until 1939, small are shipments were handled by the Central Reilroad of Brazil for expertation, This are went from the iron mines leasted near

the relivest line, that is to say, Perceptes and Rio des Velhas, whose expert veloce, through the part of Rio de Janeiro, encusted to 396,938 tons for 1939, which was imported mining by Germany (151,613 tons) and the Pres City of Densig (137,665 tons).

As for as expertation was concerned, the misses of the Valo de Rio Doce were still not explicated.

In the history of Brazilian iromarks, 1939 masked the beginning of a new phase, in which the undertakings of a mixed economy, or one financed with both private and state capital, was adopted.

Ecoping in mind the development of the great iremorks and promoting the exportation of iron ere on a large scale and at the same time keeping both of these economic activities independent of each other, Brazil attempted on solve the problem through the Technical Council of Economy and Finance, which defined the new orientation to be followed in the following terms:

- a) The Metional Iron industry, with the establishment of a 200,000 ton plant not in Minae, but in Senta Catarina, Parana or Min de Janeiro, where there is abundant ore, Brazilian coke and fluxes thus permitting cheaper products in the most important centers of consumption.
- b) The exportation of iron ore on a large scale, by the Vale do Rie Doce.

With the object of executing the above two plans, the Government began by nationalizing the deposits and the iron industry, planning the constitution of two companies of mixed occurry. Jointly owned by Government and private interests, of which the Mational Treasury was to be the most important stockholder, it being the daty of the one to promote the exportation of iron ore of the Vale do Rio Doce, and the other to establish the great ironworks in the State of Mines.

According to this preliminary of March, 1939, the Executive Commission of the Matiemal Iron Industry Flan was appointed to carry out the final studies relative to the construction of an Ironwerks plant and the creation

of a corporation with the object of constructing and expliciting this plant.

The choice of the locale eccasioned lively debates, which drow public attention, but the Commission choose Volta Redonds. Decree number 3,002 of 30 Nevember 1941 authorised the establishment of the National Ironworks Geopeny, establishing that the plant to be constructed would be located at that location in the State of Rie de Janeiro and would have a capacity of 335,000 tons of rails, bare, plates and absorbe, bringing the cost of the plant to 3,400,000,000 erusairos as follows:

Incorporated capital 1,250,000,000.00

Profit charce 1,240,000,000.00

US loan amounting to 45 million dollars

900,000,000.00

Total 3,400,000,000,00

As indicated by the fortunate success of the exploitation of the Volta Redonda plant, 1948 statistics show that the fiscal year ended with a balance which permitted \_the Company/ to declare a 6 percent dividend.

The production of that year totalled 656,038 tone, as follows (in tons):

| Cast iron      | 24,025  |
|----------------|---------|
| Steel ingota   | 243,736 |
| rolled (metal) | 198,277 |
| Total          | 666.044 |

#### 

#### Machington Agreement

The outburst of war in 1939, which issediately involved Great Britain, created, in a short time, serious problems encourning supplying her industry with war material, because iron are from Sweden did not arrive, as Sweden was practically isolated at the time. Nor did the ere from Herway, which had been invaded, nor did the iron ore from Herth Africa, already excluded from Great Britain's central, nor that from Spain, whose political regime was of a pattern to provide distruct.

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In 1941, the US was dragged into the conflict, in which all the weight of her weapons and her production played an important part.

Percentage important deposite of iron ore, Brasil was the conter of attention of the two countries. At the appeal for help from Greet Britain, the Brasilian government decided to examine the conditions of the problem.

## At that time, the following factors were evident:

- 1. The Itabira iron mines, with ore containing from 66 to 70 percent iron, were the property of subjects of the British government and were 36 kilometers distant from the Terminal point of the Vitoria to Minas Bailroad.
- 2. The Vitoria to Minas Railroad belonged to a private enterprise and was in the most precarious condition as far as the upkeep of the permanent road was concerned, due to a lack of adequate equipment, relling stock, and locomotives, and consequently, did not offer any guarantee for transporting ore on a large scale.
- 3. The Port of Vitoria, from which the are would be experted, had been granted to the State of Espirito Santo and was not yet prepared to expert ore with the desired speed.

From this difficult situation erose the Mashington Agreement, dated 3 May 1942, which permitted Brazil to take the necessary stope for coordination, production, transport, and expertation of her iron ero.

#### VALE Do Rio Doco Company

The Covernment of Brazil is seed decree number 4,352, of 1 Jane 1942, from which resulted the breaking up of the Miteria to Mines Railroad and the constitution of the Company of mixed occuracy Jointly owned by government and private interests? Vale do Rie doce Company, with capital amounting to 200,000,000 eraseiros, having as its purpose the extension of that reliroad as far as Itahira, as well as reconstructing and refitting, so that it can be depended on to transport a minimum capacity of 1,500,000 tess of iron ore

per year; the improving of the pert of Vitorit, completing and improving the are dock installations of this port; the explaination, transport, and expert of the iron are of the Italira mines; the explaination of the Vitoria to Minas Railroad; and the explaination and development of the Ric Bose Valley. These projects were planned, by agreement, between the Plates of Minas and Expirite Sante, and approved by the President of the Republic. A fund will be created for those projects from the not profits of the Gampany, after the distribution of 15 percent in dividuals.

Consequently, the construction and exploitation of plants and ironworks for the assufacture and processing of east iron, iron, steel, and their derivatives is not a part of their program.

Another result of the Washington Agreement was that the Board of Directors of the Company consisted of 5 dembers, the President, two Brazilian Directors and two US Directors.

The President has both the vote and the veto right and is cheen freely by the President of the Republic. As for the four Directors, they are elected by the General assembly of stock-holders. It is the duty of the Export-Import Bank of Washington to chaose the two US Directors, but since the Brasilian government possesses more than 50 percent of the stocks, it is Brasil in practice which elects them.

The British government acquired iron ore deposits in Itahira from the British Itahira Company and transferred them free of charge and free from any claims on the part of the owners or of repulty helders of British mationality, to the government of Brazil, as well as the following property that belongs to that manisipality: Santana, Gane, Conceiene, Rio to Peize, Santana, Omea de Jose Milario, Deis Correfee, Itahurasoui, Jose Goolhe, Berrachbdos, Campostre o Correge to Moto, all of this constituting an area of mearly 7,500,000 square meters [sig7, valued, in 1942, bt 100,000,000 square meters [sig7, valued, in 1942, bt 100,000,000 square.

The invited generality, interested in obtaining ore with a high iron centert, is also interested in belong the development of Brazil, concurring commercial relations between the two countries, and it granted, with the Expert-Import State of TheMington on intermediary, credit assembling to 14,000,000 dollars for the following purchases, in the We

- a) of machinery and equipment, including crushing and cifting installations which are essential so that the mines can imap up a minimum production capacity assuming to 1,500,000 tens of iron ore per year;
- b) Equipment, entertale, medinery, rolling stock, and necessary services for extending and refitting of the Vitoria to Mines Railread:
- e) Machinery and equipment necessary for increasing and completing the ere-leading facilities of the port of Vitoria.

They are to have absolute priority in supplying it and equipping it and the required materials, because already in 1943, rails, because, railroad care, machinery, equipment, and materials of all types arrived in Brazilian ports.

The conditions of the loan are truly advantageous to the Company:
no guarantee of the Mational Treasury was required, the liquidation of the
interests on the capital will be made only on the quantities resulting from
the application of the tax, assuming to 15 percent on the price of each ton
of one exported and 2 exemptions per ten of one transported by the Vitoria
to Minas Religions.

Two promiseory notes on the principal were issued, one for 10,000,000 dollars and the other for 4,000,000 dallars, day 25 years from the time they were issued; and 25 producedly notes (on the interest) such one of which is due annually.

#### Capital Investments

The initial incorporated espital of the Company accusted to 200,000,000 eruselros, of which 118,000,000 is in registered season shares of 1,000,000 eruselros each, and 90,000,000 in registered professed shares

of an equal value, 6 percent interest due, suscribed to and executed as follows:

Pederal Government

110,000,000.00

Private Companies

32,819,000.00

Public

57,181,000.00

Total

200,000,440.60

The Mational Treasury subscribed to 110,000,000 of which 80,000,000 was given in payment to the Vitoria to Mines Railroad.

Thus, the available cash, coming from this initial capital, to be received from the shareholders, in marginal notes, was decreased by 120,000,000.

Afterwards, the federal government decided that the Company must pay to Percival Farquhar, in cash, the sum of 14,000,000 erusairos as compensation for the expenses that occured to him since 1919 in studying the exploration of the iron ore deposits of Itabira, and by the rights of option to which he has the right.

As is seen, the capital for the works was reduced by 94,000,000 cruseiros, being reduced to 106,000,000, subject to the option of marginal notes of the stockholders, who are never punctual in their pagents.

Thus, it would be impossible to earry out the mechanised equipping of the Itabira mines, the reconstruction and equipping of 600 kilometers of reliroad, and the construction of the ore sharf of the port of Vitoria.

In addition, it was anticipated that the time required for the termination of these works was two years.

Since the mount of registered capital and of the US lean of 14,000,000 dollars, were insufficient, the Company solicited in 1944 on increase in its capital, for 100,000,000 crusairos more in preferred shares of 1,600,000 each, distributed as follows:

| Federal Sovernment | <b>63,</b> 660,000.00 |  |
|--------------------|-----------------------|--|
| Private Companies  | 3,000,000,00          |  |
| Public             | 13,340,000,00         |  |
| Total              | 100,000,000.00        |  |

In 1964, the Company obtained a loan of 300,000,000 cruzeiros, for debentures, in groups of 1.0,000,000 at 7 percent per year interest, issued at 12 month intervals.

The Nutional frame my was authorized to subscribe to up percent of the total of the debantures:

In 1945, the Company obtained a second from the Export-import

Bank of washingto amounting to 5,000,000 dollars which was guaranteed by
the National Treasury This loan was as in Tunder different conditions than
the first, its payment having to be made completely in cash.

Law number 24,920 of 7 May 1948 authorised the Company to raise the capital by 650,000,000 emissires, by issuing 350,000,000 more in common registered stocks valued at 1,000,000 each, all of which were subscribed to by the National Treasury



The same law authorised the Ministry of Pinance to give the Ministry of Pinance to give the guarantees of the Matienal Treasury to a loan of 7,500,000 dollars to be contracted by the Company in the Export-Import Bank of Washington, at an interest rate of 32 (3.5) percent per year.

This is, roughly, a summery of the financial situ-tion of the Company.

It must be pointed out that, in the middle of 1966, before, consequently, the third US lose, william Martin, President of the Export-Import
Bank of Washington, was in Bresil, after making a coreful visit of all of
the installations of the Company, including the port of Vitoria, the constructions for the improvement of the Vitoria to Minas Railroad, and the Itabira
mines, thus verifying, person bly, the great possibilities of the Company and
he in ing now the resources of the two loses, which total 19,000,000 dollars
were used, he formed in opinion, by which the enterprise earned still more
nelly from the Bank, so as to enable it to reach its goals.

## Freeion to Negotiate.

governments igneed to purchase a maximum [sic] of 750,000 tons of iron ore per year, at 100 cruseiros per ton (1.016 kilograms) fob miximum delivered in Vitoria, during a period of three years, with the right to renew the contract.

In 1945, hostilities ended, just when the first period ended.

Under these circumstances, Great Britain and the US communicated to the Government of Brazil that they were renounting their right to make new contracts and thus the enterprise became entirely free to call its ore to whatever country and at whatever price it o neidered convenient.

#### Ore Experts

With the data on hand, we see that all of the ere exported by the Vale do Rio Rose Company, during the period of 1942 to 1945 amounted to a total of 321,503 tons which was sent to Great Britain.

In 1966, emports of ore were at a minimum, 40,962 metric tens to Belgium, the Notherlands, and Canada.

In 1945, emports increased to 174,200 tone, the US being, for the first time, among the importing countries.

In 1948, ore exports by the Company, reached even larger proportions, amounting to 385,252 tons, with a net profit of 47,246,562.20 cruseiros, representing for Brazil currency [DEVISAS] valued at more than 2,500,000 dollars and a profit of 7,030,334,10 cruseiros for the enterprise.

he distribution of the exported ore in 1942 was as follows by countries (in tons):

| a. ab |
|-------|
| 943   |
| 862   |
| 050   |
| ,     |

Total

The following represents ore movements of the Company, in 1948, compared with that of 1947:

385,252

Ore entracted from the since - 428,612 tons - 128 percent more.

Ore transported by the Viteria to Mines Bailread - \$92,763 tons - 131 percent more. Ore experted - 285,252 tons - 121 percent more.

Both tre extraction and ere experts are continuing to increase.

The Vale do die Dose Company is doing everything possible either to export a high quality product, which is continuously gaining a better reputation in the centers of consumption or to conscientiously carry out contracted obligations, mainly concerning delivery terms. Thanks to this orientation of work, Itabira ore and the name of the enterprise is continuing to gaintageaximitian maps higher and higher esteem, tobether with the great ironworks.

The production of the mines in 1948, compared with that of 1947, was as follows (in tons):

|                  | 1947    | 1948    |              |
|------------------|---------|---------|--------------|
| Ore extracted    | 177,635 | 417,679 | 240,043 more |
| Dengue (mistrix) | 10,154  | 10,803  | 649 more     |
| Total            | 187,790 | 428,482 | 240,692 more |
|                  |         |         |              |

Of the 1948 projection, 10,903 tons were consumed by National factories and 37,427 tons remained in stock.

The increase in promotion for 1948 has as one of its factors the supplimentary works, which were carried out in the mines, and other improvements introduced in the local, of which the following deserve mention:

Power line to Came Peak; 6 inch (\*) compressed air line to the min e head and varous 3 inch and 4 inch (\*) distributing lines; emeavation of 6,000 cubic meters near the Compressor House; excavation of the California area; installation of a scale to weigh care, in the pard of the Itabiro station; and the following installations: machine shap, viaduct over the railroad, chute.for leading the care, Compressor House and North substation, drill shop, Pump house, and 4 inch (\*) water pipe at Esplanada at bench mark 1,100 cent a pump installation.

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## Vitorialto Mines Railroad

then, in 1942, the Vale do Mie Dece Company waverganized, the Viteria to Min a Railroad was incorporated within it. The Railroad was at that time in precarious dendition. As an element of industrial emploitation, is did not offer any assurance of an intensive expertation of ere, the permanent road, with old and worm out rails weighing only 22 to 25 kilosgrams [per meter ], rested on a roadbed of earth. The rate of breakdown for the rails was very high, and there were not many locomotives: The rolling stock, which was in b d need of repairs, was, for the most part, in the shuntings (switchings) of limores, waiting for repairs in the modest car shop.

In that critical war period, the international agreements of the Vale do Rio Doce Company, in spite of the precarious conditions of that railroad, appealed to large powers to increase the transport of one for exportation.

Only one course could be taken, and that was to strengthen the old existing line, replacing, for long distances, the old rails with new once weighing 35 kilograms per meter, paving the roudbed in the proper places; installing telegraph posts and sidetracks, both to increase the capacity of the line and ease the oscessing of the trains; carrying out many other works as required by the necessity for improving traffic.

In connection with these requirements, 353 kilometers of railroad line were replaced; machinery was imported either for equipping and modern-bing the Jean Neiva Shop, where the capacity for repairing locanstives went from 2 to 8 per month; or for the installation of a shop for repairing eard in Itaciba, with a capacity of 30 cars per month. The purchase of 27 Mikade locanotives, 4 locanotives from the Raulista Railro d, 2 Diesel-electric locanotives for shunting (handling) the trains, 350 special steel

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care for transporting ero, 265 flateure and 200 classed; one use seen arranged.

These were the emergency measures taken to aid the Vale do His Rose Company which, from that time on devoted its efforts to the work of mederating and recompying the Viterialto Mines railroad, so as to enable it to take care of ere shipments plumed at 1,500,000 tons of ore per year.

Starting from the port of Viteria, capital of Espirite Sante, the Vitoria to Minas Rillroad heads towards the Ric Doce Valley, reaching this river [Ric Doce ] at the Barbados station, after covering a distance of 146 kilometers, constructed with a maximum grade (slope) of 2.59 percent and with curves of 100 meter radius.

In order to replace the first section from Vitoria to Colatina, which was 154 kilometers long, an entirely new section 128.539 kilometers long, with curve of minimum radius of 200 meters and a maximum grade of .5 percent in the direction of exportation was planned and constructed. This new section represents a shortening of this post of the RR by 25.5 kilometers.

The second section, between Colatine and Aimores was improved as follows: 53 kilometers long, curve with minimum radium of 100 meters, maximum slope in the direction of exportation of 2.47 percent. Various technical charges were made to enable the Mikado lessentives to pull trains with 1,500 grows tone, as compared with 250 tone which was the capacity of the old line.

The third section, from Aineres to Governador Valadares, 148 kilometers long was originally had curves with 100 meter minimum radius and a maximum grade in the direction of expertation of 1,61 percent, was reconstructed within the third section, one of ? kilometers and the other of 10.5 pms Milemeters, between Oxpin and Governador Valadares.

An important bridge was constructed ever the Boss River at 347 kilometers. The metal bridge, resting on pillars of reinfered construct, is 340 meters long (total length), having seven 40 meter spans and two 80 meter spans.

The forth section, between Covernador Valadares and Ana Matos, which is with a minimum radius of 100 meters and a maximum grade of 1.07 percent in the direction of exportation, was altered to have curves with minimum radius of 200 meters and maximum grade of 5 percent [min.] in the direction of exportation.

The fifth section, between and Matos and Compostre, in Itabire, to-day called Presidente Vargas, is 98 kilometers long and curves with minimum graie (slope) amounting to .to percent, in the direction of exportation.

Important works were sarried out to reduce the length to 87 kilometers, ore effwhich the completion of the Desembargador Drumond to Presidente Vargas branch. When the Company was established, the end of the track was located 22 kilometers from Campostre.

The revision of the old route of the Vitoria to Minas Railroad to admit technical conditions compatable with the volume of traffic anticipated for a minimum annual trunsport of 1,500,000 tans, beyond the browing volume of imported and exposted goods by the vast and future region of the Vale do Rio Doce, involves the use of capital to the amount of approximately 600,000,000 cruseiros, for 600 kilometers approximately, which amounts to an average of 1,000,000 cruseiros per kilometers

Traffic operations in 1948

The balance of the traffic exploitation amounted to 2,079,044.00 crustires for the 1948 fiscal year, as follows:

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Boostple

70,596,932.50 eruseires

Expense

60,517,000.50 "

Palance

2,079,044.00

the final bulgace of the reilroad, however, was reduced to 1,180,325.90 cruseiros as a consequence of the negative result of 898,718.10 cruseiros on the expense accounts.

From 1942, when the Vale do Min Doce Company was established, until 1948, the financial pickers of the Vitoria to Min s Railroad whose the following movement: (See Table I)

In relation to 1947, recepts increased by 20.5 percent, influenced by the grave effects of a great number of promotions and of a general increase in salaries.

Receipts were affected by both the exceptional rainfall which occurred in November and December of 1948 and two strikes.

In spite of this, the increase in expenses was not more than that of receipts.

The volume of profitable transport increased in 1948. It amounted to 839.539 tons, as compared with 514,400 tons in 1947, a difference of 325,139tons.

Motor vehicular traffic covered 23,867,863 kilometers, as compared with 15,872,250 for 1947. Train traffic covered 1,906,108 kilometers as compared with 1,459,841 for 1947.

Such figures demonstrate that, for an increase in transported tomage of approximately 63.2 percent, the increase in expenses was, as already seen, searcely 20.5 percent. The same for an increase assumting to 63.2 percent of profitable tone transported, the increase in the number of kilometers covered by motor vehicular traffic assumted to 50.4 percent and that covered by trains was scarcely 50.6 percent.

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Conclusion to be drawn in th t in 1948, the especity of the motor rebicules and the healing force of the locametives was greatly improved.

Still another thing to consider is that the 1948 resul s are due very much to the utilisation of the modernised sections of the Viteria to Minus railroad.

## This volume eftransport, included the following goods:

| Ore (tons)               | 19 <b>48</b><br>392,763 | 1947<br>169,485 |
|--------------------------|-------------------------|-----------------|
| Timber (tone)            | 160,409                 | 131,900         |
| (Vegetal Coal (cubic met | ers)157,907             | 166,740         |
| Coreals (sacks)          | 535,167                 | 250,660         |
| Coffee (sacks)           | 465,079                 | 546,450         |

From that can be seen the great increases in volumes of goods, with the exception of coffee for which the difference is due mainly to competition. As far as coal is concerned, the decrease is due to the strikes and t e rainfalls.

#### Works in 1948

Struggling with the difficulties resulting from the difficiency of financial resources, the Vitoria to Mines Bailroad carried out the following works in 1948: Laying of the new line, to a length of 32 kilometers, in the section Colatine-Aimores; levelling and laying of the mariant line between the 164 and 170 minimum minimization kilometer mark; paving of the new line, to a total length of 36 kilometers, from the 154 kilometer mark, to the 179 kilometer mark and from the 169 kilometer (mark) to the 201 kilometer (mark); replacing 133 kilometers of 22.5 kilogram [per motor] rails with 35 kilogram [per motor] rails, between Aimores and Derribedina, which was

tion of 60 kilometers of fences; hereling of the futute Fedre Malacco station part in Titoria; establishing of supplementary are deep in Itaciba, with a surface area of 85,400 square meters and for the construction of which 42,506 square meters Caie.7 of earth were excevated.

As the for the buildings, one states, one agent house, and 6 buildings were constructed.

The work of uniting Belo Horisonte with Presidente Vargas (formerly Itabira) has already begun, Presidente Vargas is the terminal point of the Vitoria to Minas Railroad. The connection will require an extension of 130 kilometers, having a maximum compensated grade of 1 percent and a minimum curve radius of 312,58 meters.

region of Belo Horisonte, and, once the section is completed and joined to the Vitoria to Minas Railroad, the mining capital will be directly sommetted to the Rio Doce some and to the port of Vitoria, without transchipment and without change in the tariffs, by a railroad that is being totally remodesmized. Thus t e distance between Belo Horisonte-Itabire-Vitoria will be 703 kilometers, along which the future tariffs will be the lowest in Brazil, thanks to the characteristics of strongly built permanent tracks, equipment of its rolling stock and locomotives, which will permit heavy traffic.

Port of Vitoria:

The State of Espirito Santo, which has the port of Vitoria under consection, plasmed works, in 1940 for the expertation of 500,000 tons of Iron ore per year.

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The Pale de Me Bees Grand account the proposite liky of finescing the State, in that the latter an amplete the works of the Gre there, thus enabling the port to expert essently 1,500,000 tens of ere, which can be increased to 3,000,000 tens. The wharf is to accountate ships of 33 feet draught as originally planned. Four mechanical transporters for hamiling 100 ten is do on the wharf instead of the original 18 tens, thus necessitating balangement of the platform by 21 meters. It so as to have room for a railroad trades and a electric erane line for electric grance. The dredging of the entire approach small and the evolutional basis to a depth of at least 11 meters for the entering and evolution of ships of 35 feet draught is to be done. Special installations for the unloading and storing of coal coke, and other heavy yard goods are to be set up as well as manipulating ambutions/planning dumps for inflamable goods and explosives.

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The Vale de Rie-Bose Company will lead the sum of 50,000,000 oresolves to the State of Espirite Scate for the latter to construct the installations of the Gre Warf, which is the property, as concessionary of the part.

The Company will be compensated by the State with the text on the storing of ere on this wharf and others, which is being credited to the State in the account which the latter has with the company.

The verte for the improvement of the Ore Wharf are practically completed as far as present needs are concerned, in 1948, two more extensions and three underwater foundations with a volume of 267,400 subtle meters of concrete were constructed. In order to put to better use the capacity of the swe sile (pit) an installation for filling it mechanically with are was installed over it.

Ship movement for the ORE Wharf, was as follows from 1943 to 1948:

| 1943  | 9 ships  |
|-------|----------|
| 1944  | 16 ships |
| 1945. | 13 shipa |
| 1946  | 6 chips  |
| 1947  | 17 ships |
| 1948  | 45 skips |

Total exportation for the port of Vitoria in 1948 was as follows (in tons):

| Iron ere    | 305,252 | 66 persont  |
|-------------|---------|-------------|
| Other goods | 193,734 | <b>34</b> • |
|             |         |             |

del 976,986 lon

The ere shipping conditions in Viteria have improved considerably. The time spent to lead a ship with 9,500 tens at the Commercial Wherf was from eight to ten days, at an expense, for leading and tense, of 18/50 erusiones per ton. At present, at the Ore Wharf comstructed by the Company, this time has been reduced to a day and a half, or 36 hours, at an expense of 8,00 eruseiros per ton including leading and taxes. When the extension of the wharf is complete, the third transporter installed, the time will be reduced by another 10 hours.

## Social service

The Vale do Rio Doce Company is also connected in an appreciable manner, with the social movement that is developing throughout the country. It is lending help to the workers, awakening in them a spirit of solidarity and raising the production level so as to improve living conditions.

Since the start of its organisation, the Company has devoted special attention to social and medical aid of its laborers and office workers.

Itabira is an old city to which should flow a large number of laborers, office workers and engineers. Itabira was not prepared to receive them, not only because there were not enough accommodations, but also because the city did not have adequate water, sever, and hespitalization services.

Because of a complete lack of houses, the Company immediately made arrangements for the construction of residences for the laborers of the mines, for skilled workers, for office workers, for engineers and for service chiefs. These houses were equipped with water, sewers, sanitary installations, essepecis, and electric lights.

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At the same time, an energiner hospital and a laboratory were installed.

There are schools for the children of the laborers which are maintained by the company, as well as a Supply Service, for selling cosmodities, at mederate prices and on credit.

Along the Railroad line, this seme aid has been distributed to the laborers and office workers. Whereever Malaria abounds, the Medical Service of the Company gives preventative aid and treatment, supplying free medical care.

In the Rio Doce Valley, the Special Service of Public Health (SESP), in agreement with the contract between the US and Brazilian governments, is providing helpful services for the hygiene of the entire region, either in fighting malaria, or in the hygiene of the cities, supplying them with water and sewers, as in the cities of Fundao, Colatina, Aimores and Governador Valadares.

Thanks to these hygiene methods, there has not been any widespread epidemic of malaria within the past few years.

## Looking about

Until now, the present summary has been devoted to the past and present aspects, but there is a new chapter of the future of the Vale do Rio Docex Company to be presented dealing with the problems to be studied and solved.

Before, however, we would like to give some facts concerning the financial situation of the Company, or how it is spending the capital which has been confided to it.

The general balance of the Company for the fiscal year 1949 amounted to a profit of 4,214,529,40 crusieros. The first verification of this co-curred when the enterprise started its operations, which permitted the

Company's lesses to decreese from \$1,349,242.60 eruseiros to 27,134,650.20.

This fact is really encouraging and enables one to anticipate its repetition in the subsequent fiscal years, since the improvements that were introduced in all branches of the Company are aimed at better efficiency in its various industrial and economical operations.

The balance shows that the fixed assets of the Company have increased to 1,125,256,610.00 cruseiros as compared with 953,753,947.40 for 1947, which is an increase of 171,502,663.60 cruseiros.

The following table gives an idea of the development of social assets (in ornzeiros):

| 1943 | 703.785,416,10   |
|------|------------------|
| 1944 | 555,934,869,50   |
| 1945 | 769,903,658.00   |
| 1946 | 875,704,413.60   |
| 1947 | 953,753,947,40   |
| 1948 | 1,125,256,610.10 |

## NEW EXPORTATION POLICY

The President of the Vale do Rio Poce Company, the civil and mining engineer, Dr Dermeval Jose Pimenta, who, in addition to being a technician and efficient administrator, has been the director of the enterprise since 1946. He has made numerous speeches and has written numerous excellent articles.

The following has been taken from a lecture that he made recently in Belo Horisonte entirled "New policy of iron ore exportation— estimation of the reserves: "

"All of the irea ere estimations that have been made up until new by Brazilian geologists have been drawn up from simple estimates based on a superficial emmination of the ore in the pits.

"The most recent estimation of Brasil's iron ore reserves are based on data obtained from all of the iron ore pits and deposits. Brasil's iron ere reserves amounted to 15,000,000,000 tons distributed as follows (taken from the periodical "Mining and Metalurgy", No 9, October 1937), in tons:

| Compant haematite, 65 percent iron | 1,500,000,000  | 10 percent   |
|------------------------------------|----------------|--------------|
| "Itabiro", 50 to 60 percent iron   | 3,504,000,000  | 23.5 percent |
| Inferior ore, 30 to 50 percent     | 10,000,000,000 | 66.7 percent |
| Total .                            | 15,000,000,000 | 100 percent  |

"This estimate, which was made by the engineers of the Department of Ore Production, headed by the mining engineer Luciano Jacques de Moreis, is, according to these engineers, actually twice that amount. However, most of the remainder is iron one of low iron content.

\*Thus Brazil's reserves amount to 30,000,000 tons, of which compact hasmatite with an iron content amounting to an average of 65 percent, dues not exceed 10 percent of the reserves, or not more than 3,000,000,000 tons.

## Estimation based or studies and prospecting reserves

"The study of the iron mines, which, at present, is being carried out by the Vale do Rio Doce Company, Volta Redonda Company, and Belgo-Mineiro Ironworks Company, is already supplying us with very interesting data concerning not only the cubic quantity of each grade of ore, but also concerning their chemical and physical properties.

"The above is data collected by the Vale do Rio Doce Company, in its emploration of the Pico do Caue mines, in Itabira, which encouraged this Company to begin a systematic study of drillings so as to obtain data concerning underground reserves. These studies were made to determine or confirm the physical characteristics and the chemical content of the various

grades of ere, and especially of compact hessatite.

\*Two enterprises contracted to carry out explorations which are being accompanied by Brazilian and US geologists.

The date gathered both on the surface and under ground, in the Itabira deposits, either from the old galaries which were eponed by the Itabira Iron Company or by the exploration of the open pit mines, has caused Brasil to anticipate that the quantities of ore with the necessary characteristics for the blast furnaces and also for sinterisation are higher than that of the previous estimates which means, consequently, that the quantities of compact hasmatite, for the steel refinement in the Siemens-Martin blast furnace, are less than anticipated.

"Based on the cutic measurements made recently in the mines and on the observation of general conditions, the Superintendent of the Department of Mines is of the opinion that the reserves of one of the company, with an iron content between 50 and 70 percent iron, total 1,000,000 tons and that of this tonnage 30 percent, n4 300,000,000 tons is baseatite with an average iron content of 67,5 percent;

\*Of these 300,000,000 tons of haematite, part is constituted of compact haematite for refining in the Siemens-Martin steel blasting furnaces, and, is therefore exportable.

\*Amother part of that amount (less compact) is destined for the blast furnaces, for which an intermational market exists.

"The remainder, which consists of pulverised ore [called jacutings] with a high iron content, is not at present exportable, due to its physical characteristics. It would have to be combined with other grades of ore.

\*Of the other 70 percent of the Itabira ore reserves, one part consists

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of ore for blasting furneces such as "comps", which is expertable in its natural form and for which there is no intermational market. Another part consists of "itabirite" an easily erumbled ere(friable), silicous, which can be experted after it is put into a concentrated form or sinterised.

Thy what is being revealed in the Itabira mines, and by what already can be observed in the Memlevade mines, in the Belge-Mineira mines, in the Casa de Pedramines mines, and in the Mational Ironwarks mines, all of the exploration plans of the iron mines of the State of Mines will have to be alternated so that a large percentage of all of the grades of iron ore, which are not exportable, can be put to good use and not left as rejected.

It would not be conceivable that we exploit our iron mines so as to extract the compact becautite for exportation and leave the rest as rejected.

"It is from this new orientation to be given to the exploration services of our mines with the goal of putting to practical use all grades of ere that the new exportation policy for ore was derived, which is as follows:

"The exploitation of the iron ore beds, aimed at large scale exportation, will be organised on a practical basis so as to put to best all grades of ore. Those that, by their physical characteristics and by their high iron content, will find markets and will be exported in their natural state, those that possess these nualities and do not find markets will be used in national blasting furnaces or after sinterisation, will be used in plants set up, preferably, near the mines, transferred in east iron and exported in this form as a semi-finished product."

Form another work of the same author, we have taken the following:

The will have to export at low prices the compact hasmatite of high iron content which constitutes 30 percent of the total of our ere reserves. In addition we will have to sinterine and improve the remaining 70 percent, transforming it into east iron, for large scale exportation or for meeting our our needs.

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"Mi present, the price of east iron is approximately 6 times higher than that of ere, and it is easy to see it is best for Brazil that we expert this 70 percent of ere, not in its natural state for it would not find a market as such, but in a "semi-improved" state, as east iron."

## terther Thesis in Focus

The President of the Vale do Rie Dose Company, is some public round table detates among technicians assembled by the Morais Rego Center, composed the following alogan during a speech concerning return shipments:

\*Ore for them, soul for us. \*

"A region covered by extensive virgin forest, watered by mighty rivers with powerful water falls, which has very fertile land and possesses various vities that are developing freely is located within the Belo Herizonte and Vitoria some of influence.

"The Vitoria to Mines Railroad, which serves this region, is being modernised so as to offer rapid, efficient, and cheap transportation.

"In this valley, there is plenty of iron ore, coal and electric power potential.

"With the Itabira-Belo Horisonte union, the Vitoria to Minas Railroad will tramport the limestone from the Sete Lagons some to the Vale Do Rio Dose.

The ironworks and coal, are already in this valley. In the some served by the E. F. Central do Brasil / Central Railread of Brasil there are the Merro Grande and Homlevede plants; in the some of the Vitoria to Mines Railread, in Vitoria, the plant of the Companhia de Ferro e Aco / Iron and Steel Company is already in operation.

"If the Viteria to Mines Railread is going to transport 1,900,000 tons of ere, which comes from Itabera destined for the port of Viteria for exportation, trains with empty care on the 600 bilemeter return trip will have to be formed. Declassified in Part - Sanitized Copy Approved for Release 2012/04/05 : CIA-RDP82-00039R000100090062-

"The chips that will receive this ere in the port of Vitoria will arrive there empty, because coal imports which could be made by those ships in their return voyage amount to practically mething.

"If that is the situation, the Government and the private enterprises must turn their capital and their vision towards that valley and establish coal iromorks there.

"If we have ships that some back capty on their return trip and if we also have ears that return capty to the mines on their return trip, then we should use these capty ships and cars for transporting coal which is indespensable to the plants.

elmost exhausted. The great US plants are very interested in our high iron content. As there is an abundance of coal in the US, it should be easy to establish reciprocal trade with these two raw materials. They need our ore, we need their coal, and that is the key to the economic solution for the creation of our iron depots.

"May not try an agreement with the US, in the sense of participating in the great iron enterprises in the establishment of plants in the Vale do Rio Loce?

"If this agreement is carried out, it is certain that the Vale do Rio Dose will be one of the most industrialised somes of Brazil and ber greatest iron center."

At this time, to these considerations, we can add the consideration that coal, thus distributed in the Vale de Ric Dace, would save our richest forest reserves in that region which are indespensable to the rain and fluval waters, etherwise the land there would become devastated enhanced, secreted and useless.

In addition, the statements made by Deputy Dunue de Mesmuita as a member of the inter-parliamentary commission charged by Congress to study the economic and financial situation of the Vale de Ric Dooc Company gust also be considered. He stated:

"The solution of the C.V.R.D [ Vale do Rie Dose Company] problem lies in the importation of coal and coke accompanied by the exportation of ore,

\*Concerning this, the following observations made by Valentin Boucas, who is unquestionably one of the bost informed men on the subject of Brazil's trade with the US, stand out in one's mind:

PBrazil needs roal, a large unntity of which continues to be imported from the US. Special attention should be given to the fact that coal could be obtained by intermediary of the United States Steel Corporation, at a convenient purchase price. For the importation of coal, dollars are at present a difficult importation.

"The precise grades and quantities of coal to be imported should be fixed in detail.

"Coal can be paid for by iron ore after the respective unit values are established. A commercial product can be used in payment for another commercial product. The difference could be settled periodically."

All of these various opinions serve to show the importance of the situation.

From all that is in this report concerning the activities of the

Vale de Rio Dose Company, it can be concluded that one of the two largest organization which are jointly owned by government and private interests already formed in Bra mil is destined, like the other, the Companhis Siderurgica Macional [National Ironworks Company] which is already in full development, to victoriously reach her high economic and patriotic goals.

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